

Your Ref. No.:05501-cp/us  
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### Abstract

A filtering induction device is provided to improve the filter effect via the increase of an insertion loss resulting from stray capacitance. The induction device includes at least  
5 one core structure, and first and second flat coils that interlacing with each other. The first flat coil is used as an inductor, and the second flat coil is used as an electrode belonging to a capacitor formed between the circles of the first flat coil.